PROJECT ID: PMN06011997

SAMPLE ID: NO SAMPLE ID

DESCRIPTOR: PESTICIDE MONITORING NETWORK PN 142

IDEM

DK12434, DK12498, DK12497, DK12499-503, DK12514 &

DK12160-61



Environmental Health Laboratories

110 South Hill Street South Bend, Indiana 46617 (219)233-4777 (800)332-4345 (219)233-8207 FAX

110 S. Hill Street South Bend, IN 46617-2702 (219) 233-4777 (219) 233-3272 FAX (219) 233-8207

LABORATORY REPORT

Client: IDEM

Attn:

Mitt Denney

Groundwater Section
100 North Senate Avenue

P.O. Box 6015

Indianapolis, IN 46206-6015

Report #: 374150-154+175-234

Priority: Standard Written

Status: Final

Project: DK 12434, DK 12498, DK12497, DK 12499-503, DK 12514 &

DK12160-61

Samples Submitted: Eleven groundwater samples

Copies to: None

Collected: 12/01 to 12/03/98

By: Client

Received: 12/03 to 12/04/98

REPORT SUMMARY

Eleven groundwater samples were submitted for analysis of Task 4A, 2,4-D and Carbofuran (Enzyme Immunoassay) and Pesticides (Method 525.2).

Note: The samples submitted for pesticide analysis were extracted at a neutral pH at the request of the client.

The following is a summary of the results by sample. Any compounds that are not part of the requested parameter list are indicated by an asterisk(*).

2.4-D Enzyme Immunoassay-12/07/98

None of the quality control samples in the analytical run were outside the limits specified in the method.

DK12434 2,4-D was not detected in the sample submitted for analysis.

DK12498 2,4-D was not detected in the sample submitted for analysis.

DK12497 2,4-D was not detected in the sample submitted for analysis.

DK12499 2,4-D was not detected in the sample submitted for analysis.

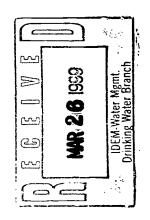
DK12500 2,4-D was not detected in the sample submitted for analysis.

DK12501 2,4-D was not detected in the sample submitted for analysis.

DK12502 2,4-D was not detected in the sample submitted for analysis.

DK12503 2,4-D was not detected in the sample submitted for analysis.

DK12514 2,4-D was not detected in the sample submitted for analysis.



Client: IDEM Report #: 374150-154+175-234

2.4-D Enzyme Immunoassay-12/07/98Cont'd

DK12160 2,4-D was not detected in the sample submitted for analysis.

DK12161 2,4-D was not detected in the sample submitted for analysis.

Carbofuran Enzyme Immunoassay-12/08/98

None of the quality control samples in the analytical run were outside the limits specified in the method.

DK12434 Carbofuran was not detected in the sample submitted for analysis.

DK12498 Carbofuran was not detected in the sample submitted for analysis.

DK12497 Carbofuran was not detected in the sample submitted for analysis.

DK12499 Carbofuran was not detected in the sample submitted for analysis.

DK12500 Carbofuran was not detected in the sample submitted for analysis.

DK12501 Carbofuran was not detected in the sample submitted for analysis.

DK12502 Carbofuran was not detected in the sample submitted for analysis.

DK12503 Carbofuran was not detected in the sample submitted for analysis.

DK12514 Carbofuran was not detected in the sample submitted for analysis.

DK12160 Carbofuran was not detected in the sample submitted for analysis.

DK12161 Carbofuran was not detected in the sample submitted for analysis.

EPA 525.2-AE121798

Cyanazine recovery in the LFB was low biased outside the acceptance limits of 70-130% recovery. This compound had acceptable recoveries in the CCCs. One of four surrogate standard recoveries in sample DK12503 was high biased outside the acceptance limits of 70-130% recovery. This data is acceptable based on the recoveries of the other three surrogate standards. Due to an analyst error, a laboratory fortified matrix was not analyzed. None of the other quality control samples in the analytical run were outside the limits specified in the method.

None of the method parameters were detected in the sample submitted for

analysis.

DK12498 None of the method parameters were detected in the sample submitted for

analysis.

DK12497 None of the method parameters were detected in the sample submitted for

analysis.

Client: IDEM Report #: 374150-154+175-234

EPA 525.2-AE121798Cont'd

DK12499	None of the method parameters were detected in the sample submitted for
	analysis.

DK12500	None of the method parameters were detected in the sample submitted for
	analysis.

DK12501	None of the method parameters were detected in the sample submitted for
	analysis.

•	
DK12502	None of the method parameters were detected in the sample submitted for
DITIEOUL	recite of the metrica parameters were actedited in the earlipid cabilities for
	analysis

DK12503	None of the method parameters were detected in the sample submitted for
	analysis.

DK12514	None of the method parameters were detected in the sample submitted for
	analysis.

DK12160	None of the method parameters were detected in the sample submitted for analysis.

DK12161	None of the method parameters were detected in the sample submitted for
	analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not he sitate to call us at (219) 233-4777.

REVIEWED BY: DATE: 3/4/99

FINALIZED BY: Jeong III DATE: 3/24/99.

ENVIRONMENTAL HEALTH LABORATORIES

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.4-D ANALYSIS RESULT SHEET

Run Date: Method: 12/07/98 Enzyme Immunoassay - Qualitative Run Time: 14:00

TOT Standard 1: 7J2563

Standard 2: 7J2564
Standard 3: Not Used
Control Solution: 7J2566

Diluent/Zero Solution: 7K2778

Analyst: XX

Project(s): IDEM / Pesticide Monitoring Network

Stopping Solution: Enzyme Conjugate: 8C1017 7J2630

Washing Solution: 7L3052 8B1151

Magnetic Particles: Color Solution: 8C1016

Instrument ID: B&L Spectronic 21

Standard Warmup Time: Run ID #: 16051

Spectronic 21 Setting: 450

Curve Date: 07/08/98

Kit Lot: 8C1023

in use: 12/07/98

Absent Absent Absent Absent Present 200	2.0 P									1
										<u>.</u>
bsent bsent bsent bsent cresent		81.6	0.878	RW	ccc	1.0 ug/L	Standard1			20
bsent bsent bsent bsent bsent bsent	0.8 P	91.6	0.985	RW	LMB	0.0 ug/L	Diluent/Zero			19
bsent bsent	<1.0 A	110.6	1.189	GW	FS		DK12161	IDEM	374233	18
bsent	<1.0 A	100.8	1.084	GW	FS		DK12160	IDEM	374228	17
bsent	<1.0 A	102.6	1.104	GW	FS		DK12514	IDEM	374223	16
	<1.0 A	103.8	1.116	GW	FS		DK12503	IDEM	374218	15
Absent	<1.0 A	100.3	1.079	GW	FS		DK12502	IDEM	374213	14
Absent	<1.0 A	126.0	1.355	GW	FS		DK12501	IDEM	374208	13
Absent	<1.0 A	107.8	1.159	GW	FS		DK12500	IDEM	374203	12
Absent	< 1.0 A	98.9	1.064	GW	FS		DK12499	IDEM	374198	=
Absent	<1.0 A	98.5	1.059	GW	FS		DK12497	IDEM	374193	10
Absent	<1.0 A	102.0	1.097	GW	FS		DK12498	IDEM	374184	9
Present 100	1.0 PA	89.3	0.960	RW	ccc	1.0 ug/L	Standard1			∞
Absent	<1.0 A	96.9	1.042	RW	LMB	0.0 ug/L	Diluent/Zero			7
Absent	<1.0 A	99.8	1.073	GW	FS		DK12434	IDEM	374153	6
Present 80	2.8 P	77.8	0.837	RW	ocs	3.5 ug/L	Control			s
Present 90	0.9 P	89.8	0.966	RW	ICS	1.0 ug/L	Standard1			4
Present 110	1.1 P	87.0	0.936	RW	ICS	1.0 ug/L	Standard1			ယ
			1.085	RW	LMB	0.0 ug/L	Diluent/Zero			2
			1.066	RW	LMB	0.0 ug/L	Diluent/Zero			1
Result (Rec.) C	PPB F	Bx x 100	Absorbance (mr)	ple Name	Tabe		Sample Description	FIRMING BEACH COME SERVE		
'			,				0			

Comments:

ENVIRONMENTAL HEALTH LABORATORIES

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CARBOFURAN ANALYSIS RESULT SHEET

Project(s): IDEM / Pesticide Monitoring Network

Enzyme Conjugate: 8J0167

8E1259

Analyst:

X

Run Date: Method: 12/08/98 Enzyme Immunoassay - Qualitative Run Time: 09:30

TOT Standard 1: Not Used

Control Solution: 8J0192 Standard 2: 8J0190 Standard 3: 8J0191

Diluent/Zero Solution: 8F1161

Color Solution: Magnetic Particles: 8C1031 8G1178 8J0168

Washing Solution: Stopping Solution:

Instrument ID: B&L Spectronic 21

Standard Warmup Time: Run ID #: 16068

Spectronic 21 Setting: 450
Curve Date: 10/15/98
Kit Lot: 8J0210

in use: 12/08/98

22	21	20	19	18	17	16	15	14	13	12	Ξ	10	9	∞	7	6	2	4	3	2	-	N X
				374234	374229	374224	374219	374214	374209	374204			374199	374194	374187	374154)
				IDEM			IDEM	IDEM	IDEM	IDEM						Gient						
		Standard2	Diluent/Zero	DK12161	DK12160	DK12514	DK12503	DK12502	DK12501	DK12500	Standard2	Diluent/Zero	DK12499	DK12497	DK12498	DK12434	Control	Standard2	Standard2	Diluent/Zero	Diluent/Zero	Sample Description
		1.0 ug/L	0.0 ug/L								1.0 ug/L	0.0 ug/L					2.0 ug/L	1.0 ug/L	1.0 ug/L	0.0 ug/L	0.0 ug/L	
		ccc	LMB	FS	ccc	LMB	FS	FS	FS	FS	QCS	ICS	ICS	LMB	LMB	Type Sam						
		RW	RW	GW	RW	RW	GW	GW	GW	WĐ	RW	RW	RW	RW	RW	p l e Mauris						
		0.803	1.510	1.760	1.560	1.690	1.740	1.730	1.710	1.495	0.718	1.630	1.436	1.550	1.730	1.660	0.602	0.802	0.817	1.499	1.484	Absorbance (mi)
		53.8	101.2	118.0	104.6	113.3	116.7	116.0	114.6	100.2	48.1	109.3	96.3	103.9	116.0	111.3	40.4	53.8	54.8			Ba x 100 Bo
		8.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	1.7	0.80	0.78			Catch
		Present	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Present	Absent	Absent	Absent	Absent	Absent	Present	Present	Present			Final Result
		80									110						85	80	78			24
																		,				c

Comments:

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PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED - GC/MS TUNING AND MASS CALIBRATION - Decafluorotriphenylphosphine (DFTPP)

Tech: AT

Date: 12/18/98

Lab Name: Environmental Health Laboratories

Lab ID:

Acq. File:

A121798A

Contract:

BAA 97-044

Task:

4A

Data Directory: AE\121798A

Project:

IDEM / Pesticide Monitoring Network Case:

443 15 to 24% of mass 442

n/a

unknown

Initial Cali File: 0928F0AE

Column:

Restek XTI-5 30m x 0.25mm ID

Method: 525.2 Instrument ID: GC/MS - AE

m/e Ion Abundance Criteria % Rel Abundance Q Matrix Code 51 10 to 80% of base peak Reagent Water RW 28.58 Tune Date: Surface Water 68 < 2% of Mass 69 0.00 SW 0.00 12/17/98 **Drinking Water** DW 70 < 2% of Mass 69 127 10 to 80% of base peak 27.42 **Ground Water** GW 197 < 2% of Mass 198 0.00 Tune Time: Waste Water ww 198 base peak or > 50 % of mass 442 14:25 Sediment 100.00 SE 199 5 to 9% of mass 198 8.29 Soil SO 275 10 to 60% of base peak **Hours Since** Sludge SL 18.91 365 > 1% of base peak 2.98 Last Tune Other Solvents os **TCLP Leachate** TC 441 Present and < mass 443 14.76 442 base peak or > 50 % of mass 198 Hazardous Waste HW 69.45 Contamination Levels: L=Low M=Medium H=High 17.17

		Data File /	Date	Time	Matrix	Contm.
	Sample No. / Sample Description	Sample ID	Analyzed	Analyzed	Code	Level
1	Tune 1	TI-DFN1	12/17/98	14:25	os	
2	SPCC	S-525A	12/17/98	14:56	os	
3	Continuing Calibration Check A	C-1-18A	12/17/98	15:38	os	
4	Laboratory Method Blank A	MB-525A	12/17/98	16:34	RW	
5	Laboratory Fortified Blank A	FB-525A	12/17/98	17:08	RW	
6	DK 12434	374150	12/17/98	17:43	GW	L
7	DK 12498	374175	12/17/98	18:17	GW	L
8	DK 12497	374190	12/17/98	18:51	GW	L
9	DK 12499	374195	12/17/98	19:25	GW	L
10	DK 12500	374200	12/17/98	20:00	GW	L
11	DK 12501	374205	12/17/98	20:34	GW	L
12	DK 12502	374210	12/17/98	21:08	GW	L
13	DK 12503	374215	12/17/98	21:42	GW	L
14	DK 12514	374220	12/17/98	22:16	GW	L
15	DK 12160	374225	12/17/98	22:50	GW	L
16	DK 12161	374230	12/17/98	23:24	GW	L
17	Laboratory Fortified Matrix A	FM-525A	12/18/98	00:34	DW	
18	Continuing Calibration Check B	C-1-18B	12/18/98	01:09	os	
19						
20						
21						
22			_			
23						
24						

Q = A flag o	Q = A flag or qualifier indicating possible cause for an out of range or failed result.									
Comments:										
	-									

Environmental Health Laboratories

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PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED LABORATORY PERFORMANCE CHECK

Tech: AT

Date: 12/18/98

Lab Name: Environmental Health Laboratories

Lab ID: unknown

n/a

Acq. File:

Contract:

4A

A121798A AE\121798A

Project:

BAA 97-044

Task:

Data Directory: Initial Cali File:

0928F0AE

Column:

Restek XTI-5 30m x 0.25mm ID

Method: 525.2

Instrument ID:

GC/MS - AE

Data File: S-525A

LPC Soln Lot #:

112597-112597

		Conc.				
Compound	Test	ug/ml	Requirements	Result	Pass/Fail	Q
	Chromatographic					
Bromacil	Performance	5.0	0.80 < PGF < 1.20 (a)	0.92	Pass	
Atrazine	Column	0.15				
Prometon	Performance	0.30	Resolution > 0.7 (b)	1.10	Pass	
-	Abundance of degradation					
Endrin	to Endrin Aldehyde	2.0	< 10% endrin aldehyde	< 10 %	Pass	
-	Abundance of degradation					
4,4' - DD T	to 4,4' - DDD & 4,4' - DDE		< 10% 4,4'-DDD & 4,4'-DDE	< 10 %	Pass	

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

(a) PGF - peak Gaussian factor. Calculated using the equation:

PGF =
$$\frac{1.83 \times W(1/2)}{W(1/10)}$$

where W(1/2) is the peak width at half height and W(1/10) is the peak width at tenth height.

(b) Resolution between the two peaks as defined by the equation:

$$R = t$$

where t is the difference in elution times between the two peaks and W is the average peak width, at the baseline, of the two peaks.

Comments:				
-	 _		 	

Environmental Health Laboratories

Environmental Health Laboratories Continuing Calibration Check Check

File Name: C-1-18A

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 376360

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 15:38

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: CCC A

<u>Compound</u>	Target	Amount	%Rec	<u>Lower</u>	<u>Upper</u>	<u>Pass/Fail</u>
Acetochlor	1.00	0.963	96.3	70.00	130.00	PASS
Alachlor	1.00	0.932	93.2	70.00	130.00	PASS
Atrazine	1.00	1.054	105.4	70.00	130.00	PASS
Bromacil	1.00	1.05	105.0	70.00	130.00	PASS
Cyanazine	1.00	0.913	91.3	70.00	130.00	PASS
Diazinon	1.00	1.069	106.9	70.00	130.00	PASS
Endosulfan I	1.00	1.035	103.5	70.00	130.00	PASS
Endosulfan II	1.00	0.973	97.3	70.00	130.00	PASS
Endosulfan sulfate	1.00	0.958	95.8	70.00	130.00	PASS
Fenamiphos	1.00	0.956	95.6	70.00	130.00	PASS
Metolachlor	1.00	0.93	93.0	70.00	130.00	PASS
Metribuzin	1.00	0.964	96.4	70.00	130.00	PASS
Pendimethalin	1.00	1.045	104.5	70.00	130.00	PASS
Prometon	1.00	0.997	99.7	70.00	130.00	PASS
Propachlor	1.00	1.005	100.5	70.00	130.00	PASS
Simazine	1.00	0.91	91.0	70.00	130.00	PASS
Terbufos	1.00	0.852	85.2	70.00	130.00	PASS
Trifluralin	1.00	0.871	87.1	70.00	130.00	PASS
IS-4,4'-Dibromooctafluorobiphenyl	1.00	5.0	N/A	N/A	N/A	Validate
IS-Chrysene-d12	1.00	5.0	N/A	N/A	N/A	Validate
IS-Phenanthrene-d10	1.00	5.0	N/A	N/A	N/A	Validate

Environmental Health Laboratories Laboratory Method Blank Check

File Name: MB-525A

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 378166

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17

Analysis Time: 16:34 Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: LMB A L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachior	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

Environmental Health Laboratories Laboratory Fortified Blank Check

File Name: FB-525A

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 378167

Sample Description: LFB A L

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 17:08

Analyst: toms

Results Submitted By: toms

Run Number: 16325

				Lim	its	
Compound	<u>Target</u>	<u>Amount</u>	%Rec	<u>Lower</u>	<u>Upper</u>	Pass/Fail
Acetochlor	1.00	1.179	117.9	70.00	130.00	PASS
Alachlor	1.00	1.061	106.1	70.00	130.00	PASS
Atrazine	1.00	1.076	107.6	70.00	130.00	PASS
Bromacil	1.00	1.159	115.9	70.00	130.00	PASS
Cyanazine	1.00	0.166	16.6	70.00	130.00	*FAIL*
Diazinon	1.00	1.272	127.2	70.00	130.00	PASS
Endosulfan I	1.00	1.13	113.0	70.00	130.00	PASS
Endosulfan II	1.00	1.119	111.9	70.00	130.00	PASS
Endosulfan sulfate	1.00	1.09	109.0	70.00	130.00	PASS
Fenamiphos	1.00	1.016	101.6	70.00	130.00	PASS
Metolachlor	1.00	1.086	108.6	70.00	130.00	PASS
Metribuzin	1.00	0.877	87.7	70.00	130.00	PASS
Pendimethalin	1.00	1.298	129.8	70.00	130.00	PASS
Prometon	1.00	0.764	76.4	70.00	130.00	PASS
Propachlor	1.00	1.107	110.7	70.00	130.00	PASS
Simazine	1.00	0.789	78 .9	70.00	130.00	PASS
Terbufos	1.00	1.027	102.7	70.00	130.00	PASS
Trifluralin	1.00	1.005	100.5	70.00	130.00	PASS
IS-4,4'-Dibromooctafluorobiphenyl	1.00	5.0	N/A	N/A	N/A	Validate
IS-Chrysene-d12	1.00	5.0	N/A	N/A	N/A	Validate
IS-Phenanthrene-d10	1.00	5.0	N/A	N/A	N/A	Validate

File Name: 374150

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 374150

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 17:43

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12434 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachior	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374175

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 374175

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 18:17

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12498 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachior	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	< '	0.1	ug/L
1918-16-7	Propachior	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374190

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 374190

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17

Analysis Time: 18:51

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12497 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachior	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374195

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE

Extracted Date: 1998/12/07 Sample Number: 374195

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 19:25

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12499 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374200

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374200

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17

Analysis Time: 20:00

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12500 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374205

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374205

Method: 525.2 - IDEM
Calibration File: 0928F0AE

Calibration File: 0928F0AE Analysis Date: 1998/12/17 Analysis Time: 20:34

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12501 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor		0.1	//
		<		ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374210

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374210

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17

Analysis Time: 21:08

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12502 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>	
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L	
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L	
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L	

File Name: 374215

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07
Sample Number: 374215

Method: 525.2 - IDEM
Calibration File: 0928F0AE

Analysis Date: 1998/12/17 Analysis Time: 21:42

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12503 L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachior	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>	
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L	
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L	
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L	

File Name: 374220

Acquisition File: A121798A Data Directory: 121798A Today's Date: 1999/01/20 **Instrument:** GC/MS - AE

Extracted Date: 1998/12/07 Sample Number: 374220

Method: 525.2 - IDEM Calibration File: 0928F0AE **Analysis Date:** 1998/12/17 Analysis Time: 22:16

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK1251∯L

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachlor	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374225

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 374225

Sample Description: IDEM DK12160 L

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/17
Analysis Time: 22:50

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Expected Parameter Results

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
34256-82-1	Acetochlor	<	0.1	ug/L
15972-60-8	Alachior	<	0.1	ug/L
1912-24-9	Atrazine	<	0.1	ug/L
314-40-9	Bromacil	<	0.1	ug/L
21725-46-2	Cyanazine	<	0.1	ug/L
333-41-5	Diazinon	<	0.1	ug/L
959-98-8	Endosulfan I	<	0.1	ug/L
33213-65-9	Endosulfan II	<	0.1	ug/L
1031-07-8	Endosulfan sulfate	<	0.1	ug/L
22224-92-6	Fenamiphos	<	0.1	ug/L
51218-45-2	Metolachlor	<	0.1	ug/L
21087-64-9	Metribuzin	<	0.1	ug/L
40487-42-1	Pendimethalin	<	0.1	ug/L
1610-18-0	Prometon	<	0.1	ug/L
1918-16-7	Propachlor	<	0.1	ug/L
122-34-9	Simazine	<	0.07	ug/L
13071-79-9	Terbufos	<	0.1	ug/L
1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	MRL	<u>Units</u>
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L

File Name: 374230

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: 1998/12/07

Sample Number: 374230

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1999/12/17

Analysis Date: 1998/12/17 Analysis Time: 23:24

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: IDEM DK12161 L

Expected Parameter Results

	CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>
,	34256-82-1	Acetochlor	<	0.1	ug/L
	15972-60-8	Alachlor	<	0.1	ug/L
٠	1912-24-9	Atrazine	<	0.1	ug/L
;	314-40-9	Bromacil	<	0.1	ug/L
:	21725-46-2	Cyanazine	<	0.1	ug/L
;	333-41-5	Diazinon	<	0.1	ug/L
,	959-98-8	Endosulfan I	<	0.1	ug/L
;	33213-65-9	Endosulfan II	<	0.1	ug/L
	1031-07-8	Endosulfan sulfate	<	0.1	ug/L
1	22224-92-6	Fenamiphos	<	0.1	ug/L
į	51218-45-2	Metolachlor	<	0.1	ug/L
1	21087-64-9	Metribuzin	<	0.1	ug/L
	40487-42-1	Pendimethalin	<	0.1	ug/L
	1610-18-0	Prometon	<	0.1	ug/L
	1918-16-7	Propachlor	<	0.1	ug/L
	122-34-9	Simazine	<	0.07	ug/L
	13071-79-9	Terbufos	<	0.1	ug/L
	1582-09-8	Trifluralin	<	0.1	ug/L

CAS No.	<u>Parameter</u>	<u>Amount</u>	<u>MRL</u>	<u>Units</u>	
10386-84-2	IS-4,4'-Dibromooctafluorobiphenyl	5.0	N/A	ug/L	
1719-03-5	IS-Chrysene-d12	5.0	N/A	ug/L	
1517-22-2	IS-Phenanthrene-d10	5.0	N/A	ug/L	

Environmental Health Laboratories Continuing Calibration Check Check

File Name: C-1-18B

Acquisition File: A121798A
Data Directory: 121798A
Today's Date: 1999/01/20
Instrument: GC/MS - AE
Extracted Date: Not Available
Sample Number: 376359

Method: 525.2 - IDEM
Calibration File: 0928F0AE
Analysis Date: 1998/12/18
Analysis Time: 01:09

Analyst: toms

Results Submitted By: toms

Run Number: 16325

Sample Description: CCC B

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<u>Compound</u>	<u>Target</u>	<u>Amount</u>	<u>%Rec</u>	<u>Lower</u>	<u>Upper</u>	Pass/Fail
Acetochlor	1.00	1.069	106.9	70.00	130.00	PASS
Alachlor	1.00	0.977	97.7	70.00	130.00	PASS
Atrazine	1.00	1.124	112.4	70.00	130.00	PASS
Bromacil	1.00	0.745	74.5	70.00	130.00	PASS
Cyanazine	1.00	0.707	70.7	70.00	130.00	PASS
Diazinon	1.00	1.136	113.6	70.00	130.00	PASS
Endosulfan I	1.00	1.091	109.1	70.00	130.00	PASS
Endosulfan II	1.00	1.09	109.0	70.00	130.00	PASS
Endosulfan sulfate	1.00	1.03	103.0	70.00	130.00	PASS
Fenamiphos	1.00	0.716	71.6	70.00	130.00	PASS
Metolachlor	1.00	0.999	99.9	70.00	130.00	PASS
Metribuzin	1.00	0.968	96.8	70.00	130.00	PASS
Pendimethalin	1.00	1.061	106.1	70.00	130.00	PASS
Prometon	1.00	1.069	106.9	70.00	130.00	PASS
Propachlor	1.00	1.08	108.0	70.00	130.00	PASS
Simazine	1.00	0.705	70.5	70.00	130.00	PASS
Terbufos	1.00	0.904	90.4	70.00	130.00	PASS
Trifluralin	1.00	0.906	90.6	70.00	130.00	PASS
IS-4,4'-Dibromooctafluorobiphenyl	1.00	5.0	N/A	N/A	N/A	Validate
IS-Chrysene-d12	1.00	5.0	N/A	N/A	N/A	Validate
IS-Phenanthrene-d10	1.00	5.0	N/A	N/A	N/A	Validate

CCC Standard
CCC Upper Limit
CCC Lower Limit

IS1 Area IS1 RT 3657897 18.1657 4755266.1 N/A

Init Cali Lower Limit

2560527.9 N/A N/A N/A

Environmental Health Laboratories Volatile Organic Chemicals Internal Standard Area Summary

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13. 374230 / FS 14. 376359 / CCC	10. 374215 / FS 11. 374220 / FS	374205 / FS 374210 / FS	374195 / FS 374200 / FS	374175 / FS 374190 / FS	378167 / LFB 374150 / FS	Sample No. 378166 / LMB
374230 C-1-18B	374215 374220 374225	374205 374210	374195 374200	374175 374190	FB-525A 374150	Filename MB-525A
3838777 3445961	3569445 3318490	3452542 3187588	2735392 3773906	2879197 2750953	3516656 3376903	IS1 Area Q 3619618
18.2664 18.2655	18.2316 18.249	18.1657 18.184	18.1657 18.1675	18.1648 18.1657	18.1666 18.1657	IS1 RT 18.1666
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						IS1 %Rec Q
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S G W	a a w	ଭ ୪ ଆ	G ₩	G₩	GW GW	Matrix RW

IS1 = IS-Pyrene-d10 Q = Out of Range

Environmental Health Laboratories Internal Standard Area Summary Volatile Organic Chemicals

IS1 Area 3445961 IS1 RT

18.2655

CCC Standard
CCC Upper Limit
CCC Lower Limit Init Cali Lower Limit 4479749.3 N/A 2412172.7 N/A N/A N/A

Sample No. **Filename** IS1 Area Q IS1 RT Q IS1 %Rec Q Matrix

IS1 = IS-Pyrene-d10 Q = Out of Range

Environmental Health Laboratories Surrogate Percent Recovery Volatile Organic Chemicals

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374230 / FS	374225 / FS	374220 / FS	374215 / FS	374210 / FS	374205 / FS	374200 / FS	374195 / FS	374190 / FS	374175 / FS	374150 / FS	378167 / LFB	378166 / LMB	Sample No. / Desc
	374225												
5.2	6.07	5.567	5.82	5.605	5.483	5.61	5.504	5.305	5.484	5.448	6.029	5.18	SS1
106.12	123.75	112.01	120.12	114.15	113.40	115.55	112.79	110.06	111.58	108.53	120.58	103.50	%Rec C
5.058	5.822	5.19	5.677	5.5	5.361	5.482	4.896	5.115	5.181	5.405	6.485	5.205	SS2
103.22	118.70	104.43	117.17	112.02	110.88	112.91	100.33	106.12	105.41	107.67	129.70	104.00	%Rec
													Q
5.367	6.207	5.524	6.126	5.88	5.961	5.989	5.226	5.53	5.532	5.78	6.455	5.6	SS3
109.53	126.54	111.15	126.44	119.76	123.29	123.36	107.09	114.73	112.55	115.14	129.10	111.89	%Rec
													Q
5.184	5.849	4.98	7.694	5.467	5.904	5.739	4.995	5.113	5.256	5.919	6.004	5.569	SS4
105.80	119.25	100.20	158.80 C	111.34	122.11	118.21	102.36	106.08	106.94	117.91	120.08	111.27	%Rec (
0	0	0	~ _	0	0	0	0	0	0	0	0	0	Tot
	GW								GW	GW	₽W	₽	ot Matrix

SS1 = SS-2,4,5,6-Tetrachloro-m-xylene SS2 = SS-4,4'-Dichlorobiphenyl SS3 = SS-Pentachloronitrobenzene

SS4 = SS-Triphenylphosphate

Q = Out of Range

Page 1 of 1

PESTICIDES & INDUSTRIAL CHEMICALS EXTENDED INITIAL CALIBRATION

Tech: AT

Date: 12/18/98

Lab Name: Environmental Health Laboratories

Lab ID:

unknown A

Acq. File:

A121798A

Contract:

BAA 97-044

Task:

4A

Data Directory: AE\121798A

Project:

IDEM / Pesticide Monitoring Network

Case: n/a

Initial Cali File: 0928F0AE

Column:

Restek XTI-5 30m x 0.25mm ID

Method: 525.2

Instrument ID: GC/MS-AE

IC Soln Lot#: Mix 1:

1: W980505012-082898

Mix 2:

Mix 3:

Data File / Sample ID:	1005-18A	H01-18A	I-05-18A	1-18A	1-2-18A	F5-18A	F10-18A	1-25-18A	1-50-18A	F100-18A				
Concentration (ug/L);	0.05	0.1	0.5	1	2	5	10	25	50	100	Avg	%	Corr	
Compound	Rf	Rf	Rf	Rf	Rf	Rf	Rf	Rf	æ	Rf	Rf	RSD	Coeff	Q
Acetochlor		0.258	0.254	0.260	0.263		0.277	0.285			0.266	4.6	1.000	
Alachlor		1.050	1.083	1.117	1.174		1.202	1.183			1.135	5.4	1.000	
Atrazine		0.400	0.407	0.403	0.421		0.365	0.297			0.382	11.9	0.996	
Bromacil		0.913	0.746	0.736	0.815		0.848	0.862			0.820	8.4	1.000	
Cyanazine		0.308	0.306	0.318	0.343		0.349	0.364			0.331	7.2	1.000	
Diazinon		0.914	0.831	0.828	0.857		0.808	0.674			0.819	9.7	0.997	
Endosulfan I		0.256	0.209	0.203	0.205		0.215	0.205			0.216	9.4	1.000	
Endosulfan II		0.294	0.234	0.230	0.233		0.236	0.239			0.244	10.0	1.000	
Endosulfan sulfate		0.210	0.193	0.197	0.201		0.204	0.196			0.200	3.1	1.000	
Fenamiphos		0.433	0.487	0.498	0.568		0.653	0.624			0.544	15.7	1.000	
Metolachlor		2.276	2.311	2.389	2.622		2.509	2.400			2.418	5.3	1.000	
Metribuzin		0.535	0.541	0.562	0.616		0.615	0.618			0.581	6.8	1.000	L
Pendimethalin		0.400	0.460	0.454	0.474		0.459	0.477			0.454	6.2	1.000	
Prometon		0.938	0.946	0.945	0.981		0.889	0.743			0.907	9.4	0.997	
Propachlor		0.660	0.683	0.686	0.737		0.688	0.667			0.687	3.9	1.000	
Simazine		0.280	0.283	0.279	0.307		0.287	0.269			0.284	4.5	1.000	
Terbufos		1.403	1.354	1.386	1.430		1.517	1.552			1.440	5.4	1.000	
Trifluralin		1.006	1.081	1.075	1.169		1.162	1.213			1.118	6.9	1.000	

Avg RF = Average response factor Max %RSD = 30% for a linear fit

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

Comments:			 	
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Page 1 of 1

DETERMINATION OF METHOD DETECTION LIMITS METHOD 525.2 Extended - BROAD SPECTRUM PESTICIDES

Tech: RD Date: 05/02/98

Column: Contract: Project: Lab Name: Routine MDL Restek XTI-5 30m x 0.25mm ID **Environmental Health Laboratories** Method: Case: Task: Lab ID: 525.2C ī⁄a n⁄a unknown

Matrix Code:

Acq. File: A032598A

Data Directory: AE\032598A

Initial Cali Data: 0220F0AE

Instrument ID: Saturn-AE

Data File* M-01-01A M-01-01B M-01-01C M-01-01D M-01-01E M-01-01F M-0		
01-01A M-01-01B M-01-01C M-01-01D M-01-01E M-01-01F	Data File*	
M-01-01B M-01-01C M-01-01D M-01-01E M-01-01F		
M-01-01C M-01-01D M-01-01E M-01-01F M-	M-01-0	
M-01-01D M-01-01E M-01-01F M-	M-01-01C	
M-01-01E M-01-01F M-	M-01-01D	
M-01-01F M-	M-01-01E	
<u> </u>	M-01-01F	
01-01G	M-01-01G	

			Analiolo Dala	03/05/00	03/05/09 03/05/09	20/20/20	23/25/20	03/26/09 03/27/09 03/27/09	20/17/00	20/27/00			
			Committee of the Commit		00/20/00	Obse	erved Recovery	Very	00/21/00	00/27/00	Std.	Calc.	
Method	CAS#	Parameter	Target	Rep - 1	Rep-2	Rep-3	Rep-4	Rep-5	Rep - 6	Rep-7	Deviation	MDL	Units
525.2	34256-82-1	Acetochlor	0.1	0.097	0.111	0.096	0.086	0.103	0.104	0.099	0.0078	0.025	ug/L
525.2	15972-60-8	Alachlor	0.1	0.124	0.119	0.128	0.120	0.129	0.121	0.127	0.0041	0.013	ug/L
525.2	1912-24-9	Atrazine	0.1	0.101	0.098	0.110	0.097	0.101	0.105	0.103	0.0044	0.014	ug/L
525.2	314-40-9	Bromacil	0.1	0.216	0.223	0.208	0.211	0.205	0.222	0.216	0.0068	0.021	ug/L
525.2	21725-46-2	Cyanazine	0.1	0.108	0.121	0.096	0.109	0.108	0.110	0.109	0.0073	0.023	ug/L
525.2	333-41-5	Diazinon	0.1	0.289	0.278	0.283	0.286	0.282	0.265	0.252	0.0133	0.042	ug/L
525.2	959-98-8	Endosulfan I	0.1	0.142	0.142	0.123	0.140	0.129	0.130	0.130	0.0075	0.024	ug/L
525.2	33213-65-9	Endosulfan II	0.1	0.104	0.119	0.090	0.129	0.086	0.100	0.094	0.0157	0.049	ug/L
525.2	1031-07-8	Endosulfan Sulfate	0.1	0.096	0.097	0.095	0.110	0.099	0.092	0.128	0.0126	0.040	ug/L
525.2	22224-92-6	Fenamiphos	0.1	0.108	0.118	0.129	0.122	0.127	0.116	0.118	0.0071	0.022	ug/L
525.2	51218-45-2	Metolachlor	0.1	0.122	0.118	0.125	0.122	0.120	0.126	0.126	0.0031	0.010	ug/L
525.2	21087-64-9	Metribuzin	0.1	0.093	0.091	0.096	0.091	0.099	0.095	0.093	0.0029	0.009	ug/L
525.2	40487-42-1	Pendimethalin	0.1	0.095	0.099	0.096	0.102	0.103	0.096	0.094	0.0035	0.011	ug/L
525.2	1610-18-0	Prometon	0.1	0.084	0.069	0.068	0.070	0.057	0.046	0.066	0.0118	0.037	ug/L
525.2	1918-16-7	Propachlor	0.1	0.119	0.106	0.119	0.103	0.117	0.119	0.119	0.0070	0.022	ug/L
525.2	122-34-9	Simazine	0.1	0.122	0.113	0.103	0.096	0.102	0.109	0.111	0.0085	0.027	ug/L
525.2	13071-79-9	Terbufos	0.1	0.117	0.103	0.128	0.097	0.132	0.126	0.126	0.0135	0.042	ug/L
525.2	1582-09-8	Trifluralin	0.1	0.139	0.138	0.140	0.129	0.134	0.143	0.145	0.0054	0.017	رو ا

Q = A flag or qualifier indicating possible cause for an out of range or failed result.

			Comments
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ORDER # 33359

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RELINQUISHED BY: (Signature)	ture) DATE	TIME	RECEIVED FOR LABORATORY BY	DATE TIME	TO THE MEDICAL PROPERTY OF THE	の関係により		

SW = STANDARD (15 WORKING DAYS) WRITTEN **RV** = RUSH (5 WORKING DAYS) WRITTEN **RW** = RUSH (5 WORKING DAYS) WRITTEN 0% 50% 75% SHIPPING CONDITIONS (CHECKONE) TURN-AROUND-TIME (TAT) - SURCHARGES IV = IMMEDIATE (72 HOURS) VERBAL IW = IMMEDIATE (72 HOURS) WRITTEN SP = WEEKEND, HOLIDAY 125% Call 100% Samples received unannounced with less than 48 hours holding time remaining may be subject to additional **STAT =** LESS THAN 48 HOURS A kea wo who who wo

WEEKEND, HOLIDAY

RW = REAGENT WATER
DW = DRINKING WATER
GW = GROUNDWATER
SW = SURFACE WATER

MATRIX CODES:

PW - WASTEWATER

RELINQUISHED BY: (Signature)

TIME

| RECEIVED FOR LABORATORY BY:

DATE

TURN-AROUND-TIME (TAT) - SURCHARGES IV = IMMEDIATE (72 HOURS) VERBAL IMMEDIATE (72 HOURS) WRITTEN WEEKEND, HOLIDAY PEMPERATURE: 125% Call 100% Samples received unannounced with less than 48 hours holding time remaining may be subject to additional **STAT** = LESS THAN 48 HOURS)iced Mul Ambiei

DW = DRINKING WATER
GW = GROUNDWATER
SW = SURFACE WATER
WW = WASTEWATER
PW = POOL WATER

MATRIX CODES:

REAGENT WATER

DRINKING WATER

SW = STANDARD (15 WORKING DAYS) WRITTEN **RV** = RUSH (5 WORKING DAYS) VERBAL

RW = RUSH | S WORKING DAYS | WRITTEN

50% 75%

W = **W**

RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) CLIENT/COMPANY ORDERING TEST FIELD COMMENTS: 574 120 374128 37413, 58116 74-134 言語ったったり 574131 05/11/80 74/35 EHL LAB# SHADED AREA FOR LAB USE ONLY 3 DATE COLLECTION CARRIER 1150 |≥ 400 As TIME DATE DATE Ą ⋛ ⋛ ⋛ ⋛ Ą Ą Ą Ą ₹ LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT. TIME TIME RECEIVED FOR LABORATORY BY: RECEIVED BY: (Signature) DK 12240 STATE OF SAMPLE ORIGIN SAMPLING SITE/LABID DK 12234 AIRBILL NO CHAIN OF CUSTODY RECORD nvalua Oyalid DATE DATE TIME SAMPLER (Signature) LAB COMMENTS SISCONDIA CONTROL SHIPPING CONDITIONS (Check One) 515.1 ひるのこと 531. 525, d 515: aroboturan 2,4-D 2,4-D 531. aroboturan TEST NAME COOLER NO PWS ID# DATE SHIPPED ر مین میام SAMPLE REMARKS PAGE PQ# by all a C Receipt Ø يو # OF CONTAINERS MATRIX CODE TURNAROUND TIME CUSTODY SEAL

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ORDER # かり

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CLIENT/COMPANY ORDERING TEST	ORDERIN	G TEST		STATE OF SAMPLE ORIGIN		SAMP	SAMPLER (Signature)	PWS ID#	PO#		TIME	AL
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MATRIX CODES:
RW = REAGENT WATER
DW = 'DRINKING WATER
GW = GROUNDWATER
SW = SURFACE WATER
WW = WASTEWATER
PW = POOL WATER

SW = STANDARD (15 WORKING DAYS) WRITTEN **RV** = RUSH (5 WORKING DAYS) VERBAL **RW** = RUSH (5 WORKING DAYS) WRITTEN

0% 50% 75%

IV = IMMEDIATE (72 HOURS) VERBALIW = IMMEDIATE (72 HOURS) WRITTENSP = WEEKEND, HOLIDAY

100% 125% Call

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.

STAT = LESS THAN 48 HOURS

TURN-AROUND-TIME (TAT) - SURCHARGES

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ORDER#

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SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

SIND COMMENTS:	A. 1. C.	N. KINK		39-511-16E	3711158	2)14/1/15/7	371141.1155102	3741155	374.754.2	374153	374/152	374151	05/168	LAB#	JH3	[]	CLIENT/COMPANY ORDERING TEST
MENTS:				→	#5	**************************************	200		2.3	***		_	100	DATE	COLL	DEM	NY ORDER
CARRIER	ĄΡ	ĄΡ	ĄΡ	→ A/P	Α/P	Ą/P	ΑγP	1700 AP	₹	A/P	Α/P) A/P	12/2 1545 MP	TIME	COLLECTION		ING TEST
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LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

TURN-AROUND-TIME (TAT) - SURCHARGES		MATRIX CODES:
DATE TIME RECEIVED FOR LABORATORY BY: DATE TIME SHIPPING CONDITIONS (Check One) Diced D Ambient CReceipt C PUDUIT ON 13 0930 TEMPERATURE CLowest CHighest CReceipt		RELINQUISHED BY: (Signature)
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- MATRIX CODES:
 RW = REAGENT WATER
 DW = DRINKING WATER
 GW = GROUNDWATER
 SW = SURFACE WATER
- WASTEWATER
- SW = STANDARD (15 WORKING DAYS) WRITTEN

 RV = RUSH (5 WORKING DAYS) VERBAL

 RW = RUSH (5 WORKING DAYS) WRITTEN
- 50% 75%
- IV = IMMEDIATE (72 HOURS) VERBAL
 IW = IMMEDIATE (72 HOURS) WRITTE!
 SP = WEEKEND, HOLIDAY WEEKEND, HOLIDAY IMMEDIATE (72 HOURS) WRITTEN
- 100% 125% Call
 - **STAT** = LESS THAN 48 HOURS

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional

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CHAIN OF CUSTODY RECORD

CLIENT/COMPANY ORDERING TEST FIELD COMMENTS 374109 274/72 3741105 374100 37417/ 374 144 874148 374/107 374/100 374103 20116 374/W H1148 374173 LAB# 王 DATE 12/31/500 NP COLLECTION TIME Ą Ą Ą ₹ ₹ Ą ₹ Ą Ą Ą ⋛ Ą DK 12300 STATE OF SAMPLE ORIGIN SAMPLING SITE/LABID # AIRBILL NO. Invalud print nvalid ims MSD SK グタグ MS 35 MSD MSD 30 (V MSD SAMPLER (Signature) J.4-515, 525,2 531. aroboturan 40 TEST NAME COOLER NO. To thouse GO PWS ID# DATE SHIPPED SAMPLE REMARKS PQ# # OF CONTAINERS MATRIX CODE TURNAROUND TIME CUSTODY SEAL

AB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS

TURN-AROUND-TIME (TAT) - SURCHARGES			S:	MATRIX CODES:
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- REAGENT WATER
 - DRINKING WATER GROUNDWATER SURFACE WATER
 - WASTEWATER
- POOL WATER
 - **SW** = STANDARD (15 WORKING DAYS) WRITTEN **RV** = RUSH (5 WORKING DAYS) VERBAL **RW** = RUSH (5 WORKING DAYS) WRITTEN
 - RUSH 15 WORKING DAYS) WRITTEN
 - IV = IMMEDIATE (72 HOURS) VERBAL
 IW = IMMEDIATE (72 HOURS) WRITTEN
 SP = WEEKEND, HOLIDAY WEEKEND, HOLIDAY

50% 75%

100% 125% Call

STAT = LESS THAN 48 HOURS

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

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ORDER #

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SHADED AREA FOR LAB USE ONLY

CHAIN OF CUSTODY RECORD

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CHAIN OF CUSTODY RECORD

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100% 125% Call

STAT = LESS THAN 48 HOURS

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional

WASTEWATERPOOL WATER

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CLIENT/COMPANY ORDERING TEST 374201 374 200 1500 her 374 202 3742003 能公益等公司 SOCHUS 374204 108 H EHL LAB# M3GI ₹ 19 SHADED AREA FOR LAB USE ONLY DATE $\widetilde{\varphi}$ Health Laboratories 110 S. Hill Street · South Bend, IN 46617 · Phone (219) 233-4777 · (800) 332-4345 COLLECTION 10/6 120 | ≥0 TIME Ą ⋛ ₹ ₹ ⋛ ₹ ⋛ Ą Ą ₹ ş STATE OF SAMPLE ORIGIN D K DK 12500 SAMPLING SITE/LABID # B 50 CHAIN OF CUSTODY RECORD nvalud nyalua SAMPLER (Signature) 515. 2.4-D 525,2 525,2 500 531 aroboturan 2,4-D 531. aroboturan TEST NAME PWS ID# SAMPLE REMARKS PAGE PO# ORDER # # OF CONTAINERS MATRIX CODE TURNAROUND TIME CUSTODY SEAL

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

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Samples received unannounced with less than 48 hours holding time remaining may be subject to additional surcharges.

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MATRIX CODES:

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LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT.

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CLIENT/COMPANY ORDERING TEST

STATE OF SAMPLE ORIGIN

SHADED AREA FOR LAB USE ONLY

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CHAIN OF CUSTODY RECORD

SAMPLER (Signature)

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SAMPLE REMARKS

OF CONTAINERS

MATRIX CODE TURNAROUND TIME CUSTODY SEAL

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LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

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I certify that I i	received the above s	ample(s).		C	ARRII	ERS.				S	hould sa	imples be lo	ed?	YN	
	SIGNA	ATURI	E				ם	ATE A		:00		ALS ACT		•	COMMEN	rs
RELINQUIS		Ha	NOT		9/4		12	13	190 AM/PN	1	Y	N	_			
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l certify that	I received the above	sampi	c(s) und	i is/are	recore	ded in (he olli	cial re	DIAN cord bo	ok. Th	e san	ເຮສແກກໄ	e(s) will be	in the	custody of c	ompeleni
luboratory po		000.								_				ė.		-
Signatu	are:		-				_	-	<u> </u>	0.	ale: _	/	_/	Time	:: 	^



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ASSIGN	ED LA	B: EHL									
Date Sub	mitted:	12.3.98		Sample Nos Submitted DK to DK Today: 12300							
F	Project:	MONITORING NETWORK	Ass	ign	ed IDEM S	Sample Nos:	DK to DK	12340			
	Matrix:	Ground Water				Sampler:	a.Wand	art -			
	<u> </u>										
	JOR PA	RAMETERS TO DETERMINE	<u>:</u>	_		<u> </u>		·			
TASK		PARAMETER			TASK		PARAM	ETER			
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4A	CHLO	RINATED PESTICIDES									
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APPROX	IMATE (CONCENTRATIONS: 10ppm		RE	PORTING	TIME REQUI	RED: 30 DA	YS			
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Commen	<u> </u>										
 											
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Please Send Report To:

Mitt Denney

IDEM

Shadeland, Ground Water Section

P.O. Box 6015



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certify that the	sample(s) listed belo				ed by in	e or in	my pro	esence	· · · · · · · · · · · · · · · · · · ·			Dute: _ Section	GROUNI	O WA	<u>98</u>
LAB	IDEM			СО	NSISN UN	ING (MBEI	DATE AND TIME COLLECTED								
NUMBER ASSIGNED	NUMBER	2000 ml	1000 ml P. N. M.	1000 ml G, N. M.	500 ml G, W. M.	40 ml VIAL	120 ml G, (B.O.)	500 ml P, N. M.	250 ml P, N. M.	·	·				
·	DK 1211051	-		2		4	<u> </u>					 	12/2/98	1:23	AM/PM)
 	DK 12497		 	1	-	12	/						1212198		AM(PU)
	DK 12498			2	-	11		ļ <u>.</u>	l			7.55	12/2/98	4:10	AM/PM)
	DK 12499		<u> </u>	2	-	11	 	<u> </u>					1212198	5:20	АМЛЕМ
	DK 12500	 	╁──	2	<u> </u>	4		-					12 13 198		(AM)PM
	DK 12501	-	-	1 2	 	4	 			<u> </u>	ļ —		1213198		AMOM
	DK 12502	1—	-	2	 	4	 	-					1213198		AMP!
	DK 12503	-	+	10	\vdash	/	 				 	1-1	1 1	:	AM/PM
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	-	_	+-	+-		 	<u> </u>	T^{-}					1 1	:	AM/PM
		-	+	1		T^-	† -	1.					1 1	:	АМ/РМ
p.	- Plastic	G-	Glass	<u> </u>	N.	M Na	rrow N	Nouth			W.M	Wide M	outh 8.0	D Bacti. Or	nly
I certify that I r	eceived Lhe above sa	mple(s).	_	C	RRI	ERS.			_	Sł	ould sa	mples be lced?	YN	
	SIGNA						D	ATE A			SE/	ALS ACT		COMMENT	'S
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RECEIVED	BY:							:	AMA	1			<u> </u>		
l certify that I	received the above s rsonnel at all times o	sampl or lock	e(s) and	d is/ure secure	record d area	led in L	AB CU	cial rec	ord boo	.k. Th	e sume	: sample	e(s) will be in the d	:ustody of co	mpelent AMPS
Jahr						A	ddress	:							



ASSIGN	ED LA	B: EHL						
Date Submitted: 12/3/98		S	ample No	s Submitted Today:	DK/2497 to DK	12503		
F	Project:	MONITORING	3 NETWORK	Assign	ed IDEM S	Sample Nos:	DK11057 to DK	04
	Matrix:	Ground Wate	r ,			Sampler:	BRONDYKE	
TASKS 8	VOR PA	RAMETERS T	O DETERMINE		<u> </u>			
TASK	T T	PARAN			TASK		PARAMETER	
4A	PESTIC							
4A		RINATED PES	TICIDES				•••	
4A	CARBA	MATES						
APPROX		CONCENTRAT	IONS: 10 pp m	RE	PORTING	TIME REQUI	RED: 30 DAYS	
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Please S	end Rep	oort To:	Mitt Denney IDEM Shadeland, Gr P.O. Box 6015		er Section			



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I certify that the	Sumple(s) listed belo	w was	were c	ollecto	d by in	e or in Rep	my pr	esence	•			Date: Section	Curry and I lake		
LAB NUMBER	IDEM CONTROL		CONSISTING OF THE INDICATED NUMBER OF BOTTLES									т	DATE AND TIME COLLECTED		
ASSIGNED	NUMBER	2000 ml	1000 ml P, N. M.	1000 ml G, N. M.	500 ml G, W. M.	40 ml VIAL	120 ml G, (B.O.)	500 ml P. N. M.	250 ml P, N. M				10:30 am		
	DV 12239	+-		6		12							11 130 98 10:30 AMPH		
	DK 12239			2		4					-		11 30198 11 50 (AM)PM		
· · · · · · · · ·		-	 -	2	-	4		<u> </u>	 -	 	1	7	11 136 98 2:00 AMPM		
	DK (2241	+-		_	-	7_	-	 	 				/ / AM/PM		
		 	-		<u> </u>	-					 	1	/ / : AM/PM		
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		+	+		 	¦		1		1		1	/ / : AM/PM		
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<u> </u>		+	-	1-	1	 	1	T.			1.		/ / : АМ/РМ		
ρ	- Plastic	G.	Glass	<u> </u>	Ν.	M Na	riow i	Mouth			w.M.	- Wide !	Mouth 8.O Bacti. Only		
Longity that La	eceived the above s	amole(s).		C	ARRI	ers,			-	S	hould s	samples be iced?		
	I certify that I received the above sample(s). SIGNATURE						DAT'E AND TIME			SEALS INTACT					
BELINOUS	0							TIM					COMMENTS		
110011120111111111111111111111111111111					John			TIM		_	ראו	TACT	CLIENT PROVIDE		
		1 21			lom		12/2	7	E /	м			p-0		
RECEIVED	BY: Sip	1 21			lom		12/2	7	E	м	ГИІ .Y.	N	CLIENT PROVIDE		
	HED BY:	1 21			lom			<u> </u> 2_/98	E / /AM/PI		ראו	TACT	CLIENT PROVIDE		
RECEIVED RELINQUIS	BY: C. P. HED BY: BY:	1 21			lohm			1 2./98	E / /AM/PI /		. Y . Y	N N	CLIENT PROVIDE		
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Date Submitted:				Sample No	os Submitted Today:	DK 12239 to DK 1224		
1	Project:	MONITORING NETWORK	Assi	gned IDEM	Sample Nos:	DK14447 to DK144886		
	Matrix:	Ground Water		_	Sampler:	BARRES		
LVERE	ZIOP PAI	RAMETERS TO DETERMINE	:					
TASK	NOK PA	PARAMETER		TASK		PARAMETER		
4A	PESTIC							
4A	+	RINATED PESTICIDES						
4A	CARBA	MATES						
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		ONCENTRATIONS: 10ppm	R	EPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	EPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	EPORTING	TIME REQUIR	RED: 30 DAYS		
PPROXI		ONCENTRATIONS: 10ppm	R	EPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	EPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	REPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	REPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	REPORTING	TIME REQUIR	RED: 30 DAYS		
		ONCENTRATIONS: 10ppm	R	REPORTING	TIME REQUIR	RED: 30 DAYS		

Please Send Report To:

Mitt Denney

IDEM

Shadeland, Ground Water Section

P.O. Box 6015



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I certify that the s	sample(s) listed belo	ow was	were ¢	ollecte	d by m	e or in	my pr	esence				Date:	12.1.	01 1	98
Signature:		<i>X</i>	M.		<i>a</i>)`							Section	Groun	d Was	teir
LAB NUMBER	IDEM CONTROL	CONSISTING OF THE INDICATED NUMBER OF BOTTLES								rei)	DATE AND TIME COLLECTED			E	
ASSIGNED	NUMBER	2000 ml P, N. M.	1000 ml P, N. M.	1000 ml G, N. M.	500 ml G, W. M.	40 ml VIAL	120 ml G, (B.O.)	500 ml P, N. M.	250 ml P, N. M.						
	DK12514			2		4							12/01/98	11:50	MPM.
	DK 12160			2		4							12/01/98	12:45	∧м/₹€
	DK12161			2		4	. *						12/01/98	2:15	∧ M/2€
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		ļ			<u> </u>	ļ	<u> </u>	<u> </u>	<u> </u>			<u> </u>	1 1	:	AM/PM
		_		<u> </u>		<u> </u>		<u>. </u>	<u> </u>			<u> </u>	1 /	:	AM/PM
, Р.	Plastic	G - G	ilass		N .(M Na	rrow N	Nouth		٧	V.M	Wide N	louth B.C) Bacti. Or	nly
I certify that I ro	eccived the above sa	ımple(s).		CA	RRIE	ers				Sł	nould sa	mples be Iced?	YN	
	SIGŅA	TURE					а	ATE A			SE/		C	COMMENI	`S
RELINQUISH RECEIVED B	7/~~	ma	140		124C	18	2	-	/ <i>98</i> am/pm		Y	\sqrt{N}			
RELINQUISH		2	5		1921	75			/						
RECEIVED B		•							AM/PM		Y	N			
KELINQUISH	HED BY:							/	1		,,				
RECEIVED B	Y:			_				:	АМ/РМ		Y	N			
RELINQUISI	HED BY:							/	1		YN				
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	received the above s sonnel at all times o					ed in U	he offic		ord boo						
_	· e:														
Lab:						^·	ddress								



SSIGN	IED LA	B: EHL				
Date Submitted:				s Submitted Today:	DK 12514 \$ DK 12160,0K12	
F	Project:	MONITORING NETWORK	Assign	DK to DK		
_	Matrix:	Ground Water			Sampler:	J. Harry
LVGKG 8	LOR PA	RAMETERS TO DETERMIN				<u> </u>
TASK	T T	PARAMETER	1	TASK		PARAMETER
4A	PESTIC			HOR		AUMETER
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	1					
<u>omment</u>		ONCENTRATIONS: 10ppm	_			
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lease Se	end Rep	ort To: Mitt Denney IDEM Shadeland, Gr P.O. Box 6015 Indianapolis, II	j			